SDM-P234

SERVICE MANUAL

US Model
Canadian Model
AEP Model

TFT LCD COLOR COMPUTER DISPLAY

SONY®

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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: TFT Color LCD Module
Size	: 23 inch
Pixel Pitch	: 0.258 (per one triad) x 0.258
Color Depth	: 16.7M colors / 8Bit
Electrical Interface	: TMDS
Surface Treatment	: Anti-glare, Hard-coating(3H) treatment of the front polarizer
Operating Mode	: Normally Black
Backlight Unit	: 12CCFL

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10
Left : -85° min., -88°(Typ) Right : +85° min., +88°(Typ)
Top :+85° min., +88°(Typ) Bottom : -85° min., -88°(Typ)

2-2. Luminance : 70%(min)

2-3. Contrast Ratio : 400(min)

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal
• Type : Separate Sync,
SOG (Sync On Green)
Composite Sync

3-2. Video Input Signal

1) Type	: R, G, B Analog
2) Voltage Level	: 0~0.71 V
a) Color 0, 0	: 0 Vp-p
b) Color 7, 0	: 0.467 Vp-p
c) Color 15, 0	: 0.714 Vp-p
3) Input Impedance	: 75

3-3. Audio Input Signal

1) Type	: Stereo
2) Voltage Level	: 0.5rms
3) Input Impedance	: 47 k

3-4. Operating Frequency

Analog
Horizontal : 28 ~ 92kHz
Vertical : 48 ~ 85Hz Dot clock:< 170MHz

Digital
Horizontal : 28 ~ 75kHz
Vertical : 60Hz Dot clock:< 170MHz

4. Max. Resolution
Analog/Digital : 1920 x 1200 / 60Hz

5. POWER SUPPLY

5-1. Power : AC 100-240V~, 50/60Hz , 1.0A

5-2. Power Consumption

MODE (100/50Hz, 240V/60Hz)	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 80 W	GREEN
STAND BY	OFF/ON	OFF	less than 1W	AMBER
SUSPEND	ON/OFF	OFF		
DPMS OFF	OFF/OFF	OFF		
POWER S/W OFF	-	-	less than 1W	RED
AC SWITCH	-	-	less than 0W	

6. ENVIRONMENT

6-1. Operating Temperature: 5°C~35°C (41°F~95°F)

6-2. Relative Humidity : 10%~80%
(Non-condensing)
6-3. MTBF : 50,000 Hours(Min)

7. DIMENSIONS (with TILT/SWIVEL)

Width	: 534 mm (21.02")
Depth	: 250 mm (9.84")
Height	: 429 mm (16.89")

8. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 9.7kg (21.38 lbs)
Gross Weight	: 14.0 kg (30.86 lbs)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. ***These parts are marked ⚠on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

⚠ ***CAUTION***

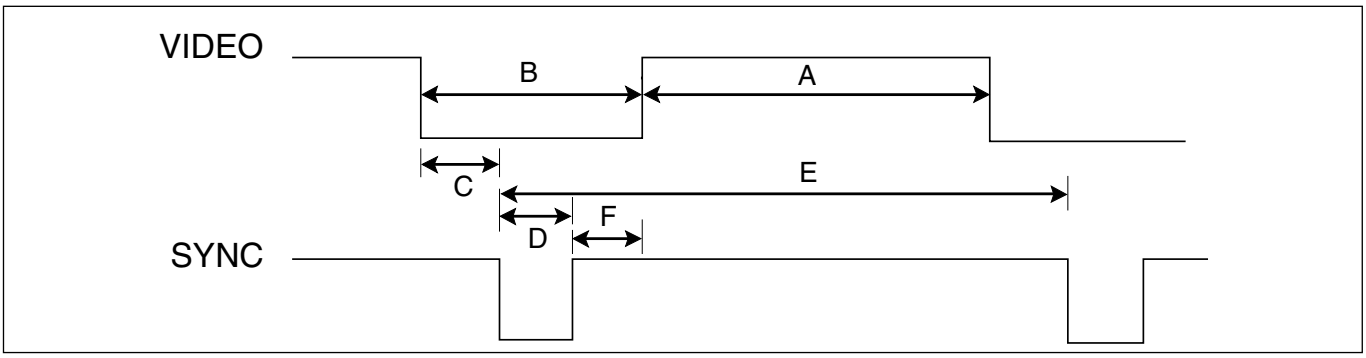
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

⚠ ***WARNING***

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

TIMING CHART



***1~39 : PC Mode /*41~52 : Video Mode**

MODEL NAME /SV#(23")																				
PRESET MODE(23")	MODE1		MODE2		MODE3		MODE4		MODE5		MODE6		MODE7		MODE8		MODE9		MODE10	
MODE FOR CUSTOMER	VESA85Hz		VESA85Hz		VGA		VESA 72Hz		VESA 75Hz		VESA 85Hz		VESA 60Hz		VGA-T		VESA 85Hz		VESA 56Hz	
RESOLUTION	640x350		640x400		640x480		640x480		640x480		640x480		720x480		720x400		720x400		800x600	
CLOCK	31.500	MHZ	31.500	MHZ	25.175	MHZ	31.500	MHZ	31.500	MHZ	36.000	MHZ	31.505	MHZ	28.350	MHZ	35.500	MHZ	36.000	MHZ
-HORIZONTAL-																				
H-FREQ	37.861	kHz	37.861	kHz	31.469	kHz	37.861	kHz	37.500	kHz	43.269	kHz	35.162	kHz	31.500	kHz	37.927	kHz	35.156	kHz
	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots
H. TOTAL	26.413	832	26.413	832	31.778	800	26.413	832	26.667	840	23.111	832	28.440	896	31.746	900	26.366	936	28.444	1024
H. BLK	6.095	192	6.095	192	6.356	160	6.095	192	6.349	200	5.333	192	5.586	176	6.349	180	6.085	216	6.222	224
H.FP	1.016	32	1.016	32	0.636	16	0.762	24	0.508	16	1.556	56	1.079	34	0.635	18	1.014	36	0.667	24
H.SYNC	2.032	64	2.032	64	3.813	96	1.270	40	2.032	64	1.556	56	1.270	40	3.810	108	2.028	72	2.000	72
H.BP	3.048	96	3.048	96	1.907	48	4.063	128	3.810	120	2.222	80	3.238	102	1.905	54	3.042	108	3.556	128
H.ACTIV	20.317	640	20.317	640	25.422	640	20.317	640	20.317	640	17.778	640	22.854	720	25.397	720	20.282	720	22.222	800
-VERTICAL-																				
V.FREQ(HZ)	85.080	Hz	85.080	Hz	59.940	Hz	72.809	Hz	75.000	Hz	85.008	Hz	59.901	Hz	70.156	Hz	85.039	Hz	56.250	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	11.754	445	11.754	445	16.683	525	13.735	520	13.333	500	11.764	509	16.694	587	14.254	449	11.759	446	17.778	625
V.BLK	2.509	95	1.189	45	1.430	45	1.057	40	0.533	20	0.670	29	3.043	107	1.556	49	1.213	46	0.711	25
V.FP	0.845	32	0.026	1	0.318	10	0.238	9	0.027	1	0.023	1	0.341	12	0.381	12	0.026	1	0.028	1
V.SYNC	0.079	3	0.079	3	0.064	2	0.079	3	0.080	3	0.069	3	0.057	2	0.095	3	0.079	3	0.057	2
V.BP	1.585	60	1.083	41	1.049	33	0.740	28	0.427	16	0.578	25	2.645	93	1.079	34	1.107	42	0.626	22
V.ACTIV	9.244	350	10.565	400	15.253	480	12.678	480	12.800	480	11.093	480	13.651	480	12.698	400	10.546	400	17.067	600
-SYNC-																				
INT(G)	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
EXT(H/V)/POLARITY	YES	P/N	NO	N/P	YES	N/N	NO	N/N	YES	N/N	YES	N/N	YES	N/N	YES	N/P	YES	N/P	YES	P/P
EXT(CS)/POLARITY	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
Serration	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
SYNC LEVEL	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V
-VIDEO-																				
VIDEO LEVEL	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p
SET UP	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V
-OTHERS-																				
INT/NON INT	NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT	
SIZE(23)	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm
#OF GRIDS	18 { 10		16 { 10		16 { 12		16 { 10		16 { 12		16 { 12		18 { 12		16 { 12		16 { 12		16 { 12	
DOTS&LINES/GRID	35 { 35		40 { 40		40 { 40		40 { 48		40 { 40		40 { 40		40 { 40		45 { 33		45 { 33		50 { 50	
EDID DATA																				
COMMENTS																				
-SONY SG SETTING																				
			H/V 8 border		H/V 8 border															
-OTHERS																				

MODEL NAME /SV#(23")																				
PRESET MODE(23")	MODE11		MODE12		MODE13		MODE14		MODE15		MODE16		MODE17		MODE18		MODE19		MODE20	
MODE FOR CUSTOMER	VESA 60Hz		VESA 72Hz		VSA 75Hz		VESA 85Hz		VESA CVT 85Hz		MAC16		VESA 60Hz		VESA 70Hz		VESA 75Hz		MAC19	
RESOLUTION	800X600		800X600		800X600		800X600		800X600		832X624		1024X768		1024X768		1024X768		1024X768	
CLOCK	40.000MHZ	50.000	MHZ	49.500	MHZ	56.250	MHZ	56.750	MHZ	57.285	MHZ	65.000	MHZ	75.000	MHZ	78.750	MHZ	80.000	MHZ	
-HORIZONTAL-																				
H-FREQ	37.879	kHz	48.077	kHz	46.875	kHz	56.674	kHz	53.741	kHz	49.727	kHz	48.363	kHz	56.476	kHz	60.023	kHz	60.241	kHz
	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots
H. TOTAL	26.400	1056	20.800	1040	21.333	1056	18.631	1048	18.608	1056	20.110	1152	20.677	1344	17.707	1328	16.660	1312	16.600	1328
H. BLK	6.400	256	4.800	240	5.172	256	4.409	248	4.511	256	5.586	320	4.923	320	4.053	304	3.657	288	3.800	304
H.FP	1.000	40	1.120	56	0.323	16	0.569	32	0.846	48	0.559	32	0.369	24	0.320	24	0.203	16	0.400	32
H.SYNC	3.200	128	2.400	120	1.616	80	1.138	64	1.410	80	1.117	64	2.092	136	1.813	136	1.219	96	1.200	96
H.BP	2.200	88	1.280	64	3.232	160	2.702	152	2.256	128	3.910	224	2.462	160	1.920	144	2.235	176	2.200	176
H.ACTIV	20.000	800	16.000	800	16.162	800	14.222	800	14.097	800	14.524	832	15.754	1024	13.653	1024	13.003	1024	12.800	1024
-VERTICAL-																				
V.FREQ(HZ)	60.317	Hz	72.188	Hz	75.000	Hz	85.061	Hz	84.898	Hz	74.553	Hz	60.004	Hz	70.069	Hz	75.029	Hz	74.927	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	16.579	628	13.853	666	13.333	625	11.756	631	11.779	633	13.413	667	16.666	806	14.272	806	13.328	800	13.346	804
V.BLK	0.739	28	1.373	66	0.533	25	0.578	31	0.558	30	0.865	43	0.786	38	0.673	38	0.533	32	0.598	36
V.FP	0.026	1	0.770	37	0.021	1	0.019	1	0.056	3	0.060	3	0.062	3	0.053	3	0.017	1	0.050	3
V.SYNC	0.106	4	0.125	6	0.064	3	0.056	3	0.074	4	0.060	3	0.124	6	0.106	6	0.050	3	0.050	3
V.BP	0.607	23	0.478	23	0.448	21	0.503	27	0.484	26	0.744	37	0.600	29	0.513	29	0.466	28	0.498	30
V.ACTIV	15.840	600	12.480	600	12.800	600	11.179	600	11.165	600	12.549	624	15.880	768	13.599	768	12.795	768	12.749	768
-SYNC-																				
INT(G)	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
EXT(H/V)/POLARITY	YES	P/P	YES	P/P	YES	P/P	YES	P/P	YES	N/P	YES	N/N	YES	N/N	YES	N/N	YES	P/P	YES	N/N
EXT(CS)/POLARITY	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
Serration	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
SYNC LEVEL	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V
-VIDEO-																				
VIDEO LEVEL	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p
SET UP	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V
-OTHERS-																				
INT/NON INT	NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT	
SIZE(23)	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm
#OF GRIDS	16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12	
DOTS&LINES/GRID	50 { 50		50 { 50		50 { 50		50 { 50		50 { 50		50 { 52		64 { 64		64 { 64		64 { 64		64 { 64	
EDID DATA																				
COMMENTS																				
-SONY SG SETTING																				
-OTHERS																				

MODEL NAME /SV#(23")																				
PRESET MODE(23")	MODE21		MODE22		MODE23		MODE24		MODE25		MODE26		MODE27		MODE28		MODE29		MODE30	
MODE FOR CUSTOMER	VESA 85Hz		VESA CVT 85Hz		VESA 75Hz		MAC21		WS		WS		MEDICAL 50Hz		VESA 60Hz		VESA 85Hz		VESA CVT 85Hz	
RESOLUTION	1024x768		1024x768		1152x864		1152x870		1152x900		1152x900		1170x584		1280x960		1280x960		1280x960	
CLOCK	94.500	MHZ	94.500	MHZ	108.000	MHZ	100.000	MHZ	92.940	MHZ	105.590	MHZ	46.200	MHZ	108.000	MHZ	148.500	MHZ	148.250	MHZ
-HORIZONTAL-																				
H-FREQ	68.677	kHz	68.677	kHz	67.500	kHz	68.681	kHz	61.795	kHz	71.732	kHz	31.216	kHz	60.000	kHz	85.938	kHz	85.793	kHz
	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots
H. TOTAL	14.561	1376	14.561	1376	14.815	1600	14.560	1456	16.182	1504	13.941	1472	32.035	1480	16.667	1800	11.636	1728	11.656	1728
H. BLK	3.725	352	3.725	352	4.148	448	3.040	304	3.787	352	3.031	320	6.710	310	4.815	520	3.017	448	3.022	448
H.FP	0.508	48	0.762	72	0.593	64	0.320	32	0.323	30	0.152	16	0.801	37	0.889	96	0.431	64	0.594	88
H.SYNC	1.016	96	1.101	104	1.185	128	1.280	128	1.377	128	0.909	96	2.792	129	1.037	112	1.077	160	0.917	136
H.BP	2.201	208	1.862	176	2.370	256	1.440	144	2.087	194	1.970	208	3.117	144	2.889	312	1.508	224	1.511	224
H.ACTIV	10.836	1024	10.836	1024	10.667	1152	11.520	1152	12.395	1152	10.910	1152	25.325	1170	11.852	1280	8.620	1280	8.634	1280
-VERTICAL-																				
V.FREQ(HZ)	84.997	Hz	84.892	Hz	75.000	Hz	75.062	Hz	65.950	Hz	76.068	Hz	50.026	Hz	60.000	Hz	85.002	Hz	84.859	Hz
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	11.765	808	11.780	809	13.333	900	13.322	915	15.163	937	13.146	943	19.990	624	16.667	1000	11.764	1011	11.784	1011
V.BLK	0.582	40	0.597	41	0.533	36	0.655	45	0.599	37	0.599	43	1.281	40	0.667	40	0.593	51	0.594	51
V.FP	0.015	1	0.044	3	0.015	1	0.044	3	0.032	2	0.028	2	0.096	3	0.017	1	0.012	1	0.035	3
V.SYNC	0.044	3	0.058	4	0.044	3	0.044	3	0.065	4	0.112	8	0.096	3	0.050	3	0.035	3	0.047	4
V.BP	0.524	36	0.495	34	0.474	32	0.568	39	0.502	31	0.460	33	1.089	34	0.600	36	0.547	47	0.513	44
V.ACTIV	11.183	768	11.183	768	12.800	864	12.667	870	14.564	900	12.547	900	18.708	584	16.000	960	11.171	960	11.190	960
-SYNC-																				
INT(G)	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
EXT(H/V)/POLARITY	YES	P/P	YES	N/P	YES	P/P	YES	N/N	YES	N/N	YES	N/N	YES	P/P	YES	P/P	YES	P/P	YES	N/P
EXT(CS)/POLARITY	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
Serration	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
SYNC LEVEL	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V
-VIDEO-																				
VIDEO LEVEL	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p	0.700	Vp-p
SET UP	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V
-OTHERS-																				
INT/NON INT	NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT	
SIZE(23)	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm
#OF GRIDS	16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12		16 { 12	
DOTS&LINES/GRID	64 { 64		64 { 64		72 { 72		72 { 72		72 { 75		72 { 75		73 { 48		80 { 80		80 { 80		80 { 80	
EDID DATA																				
COMMENTS																				
-SONY SG SETTING																				
-OTHERS																				

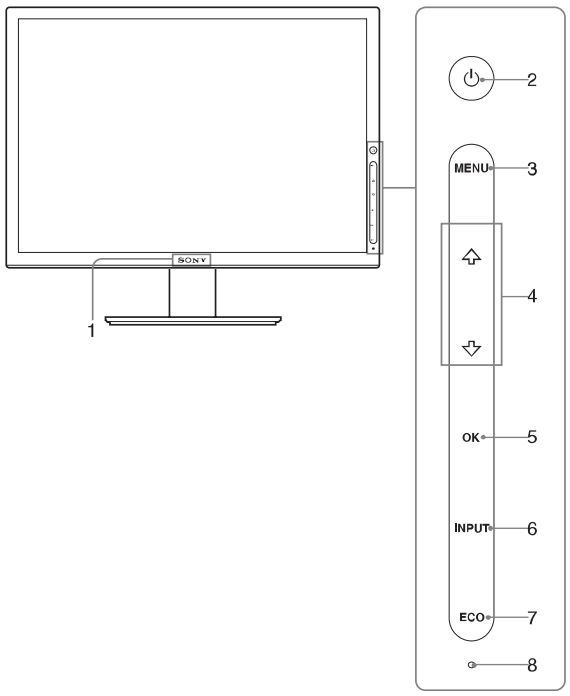
MODEL NAME /SV#(23")																						
PRESET MODE(23")	MODE31		MODE32		MODE33		MODE34		MODE35		MODE36		MODE37		MODE38		MODE39		MODE40			
MODE FOR CUSTOMER	VESA 60Hz		VESA 75Hz		VESA 85Hz		VESA CVT 85Hz		VESA CVT 60Hz		VESA CVT 75Hz		VESA 60Hz		VESA CVT 16:9(D)		16:10(D)		CTV			
RESOLUTION	1280x1024		1280x1024		1280x1024		1280x1024		1400x1050		1400x1050		1600x1200		1920x1080		1920x1200		1680x1050			
CLOCK	108.000	MHZ	135.000	MHZ	157.500	MHZ	159.500	MHZ	121.750	MHZ	156.000	MHZ	162.000	MHZ	138.500	MHZ	154.000	MHZ	119.000	MHZ		
-HORIZONTAL-																						
H-FREQ	63.981	kHz	79.976	kHz	91.146	kHz	91.456	kHz	65.317	kHz	82.278	kHz	75.000	kHz	66.587	kHz	74.038	kHz	64.674	kHz		
	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots		
H. TOTAL	15.630	1688	12.504	1688	10.971	1728	10.934	1744	15.310	1864	12.154	1896	13.333	2160	15.018	2080	13.506	2080	15.462	1840		
H. BLK	3.778	408	3.022	408	2.844	448	2.909	464	3.811	464	3.179	496	3.457	560	1.155	160	1.039	160	4.706	560		
H.FP	0.444	48	0.119	16	0.406	64	0.602	96	0.723	88	0.667	104	0.395	64	0.347	48	0.312	48	0.403	48		
H.SYNC	1.037	112	1.067	144	1.016	160	0.853	136	1.183	144	0.923	144	1.185	192	0.231	32	0.208	32	0.269	32		
H.BP	2.296	248	1.837	248	1.422	224	1.455	232	1.906	232	1.590	248	1.877	304	0.578	80	0.519	80	0.672	80		
H.ACTIV	11.852	1280	9.481	1280	8.127	1280	8.025	1280	11.499	1400	8.974	1400	9.877	1600	13.863	1920	12.468	1920	14.118	1680		
-VERTICAL-																						
V.FREQ(HZ)	60.020	Hz	75.025	Hz	85.024	Hz	84.839	Hz	59.978	Hz	74.867	Hz	60.000	Hz	59.934	Hz	59.950	Hz	59.883	Hz		
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines		
V.TOTAL	16.661	1066	13.329	1066	11.761	1072	11.787	1078	16.673	1089	13.357	1099	16.667	1250	16.685	1111	16.681	1235	16.699	1080		
V.BLK	0.656	42	0.525	42	0.527	48	0.590	54	0.597	39	0.596	49	0.667	50	0.466	31	0.473	35	0.464	30		
V.FP	0.016	1	0.013	1	0.011	1	0.033	3	0.046	3	0.036	3	0.013	1	0.045	3	0.041	3	0.046	3		
V.SYNC	0.047	3	0.038	3	0.033	3	0.077	7	0.061	4	0.049	4	0.040	3	0.075	5	0.081	6	0.093	6		
V.BP	0.594	38	0.475	38	0.483	44	0.481	44	0.490	32	0.510	42	0.613	46	0.345	23	0.351	26	0.325	21		
V.ACTIV	16.005	1024	12.804	1024	11.235	1024	11.197	1024	16.076	1050	12.762	1050	16.000	1200	16.219	1080	16.208	1200	16.235	1050		
-SYNC-																						
INT(G)	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO			
EXT(H/V)/POLARITY	YES	P/P	YES	P/P	YES	P/P	YES	N/P	YES	N/P	YES	N/P	YES	P/P	YES	P/N	YES	P/N	YES	P/N		
EXT(CS)/POLARITY	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO			
Serration	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO			
SYNC LEVEL	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V		
-VIDEO-																						
VIDEO LEVEL	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p		
SET UP	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V		
-OTHERS-																						
INT/NON INT	TNON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT			
SIZE(23)	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm		
#OF GRIDS	20 { 16		20 { 16		20 { 16		20 { 16		16 { 12		16 { 12		16 { 12		16 { 9		16 { 10		16 { 10			
DOTS&LINES/GRID	64 { 64		64 { 64		64 { 64		64 { 64		87 { 87		87 { 87		100 { 100		120 { 120		120 { 120		105 { 105			
EDID DATA																						
COMMENTS																						
-SONY SG SETTING																						
															Reduced Timing		Reduced Timing		Reduced Timing			
-OTHERS																						

MODEL NAME /SV#(23")																				
PRESET MODE(23")	MODE41		MODE42		MODE43		MODE44		MODE45		MODE46		MODE47		MODE48		MODE49		MODE50	
MODE FOR CUSTOMER	CTV		CTV		CTV		CTV		CTV		CTV		CTV		CTV		CTV		CTV	
RESOLUTION	1280x720		1280x720		1280x720		1152x720		1152x720		1152x720		1280x768		1280x768		1280x768		1728x1080	
CLOCK	74.500	MHZ	95.750	MHZ	110.250	MHZ	66.750	MHZ	85.750	MHZ	99.000	MHZ	79.500	MHZ	102.250	MHZ	117.500	MHZ	155.750	MHZ
-HORIZONTAL-																				
H-FREQ	44.772	kHz	56.456	kHz	64.398	kHz	44.859	kHz	56.414	kHz	64.453	kHz	47.776	kHz	60.289	kHz	68.633	kHz	67.134	kHz
	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots	usec	dots
H. TOTAL	22.336	1664	17.713	1696	15.52817	222.292	1488	17.726	1520	15.515	1536	20.931	1664	16.587	1696	14.570	1712	14.896	2320	15.014
H. BLK	5.154	384	4.345	416	3.918	432	5.034	336	4.292	368	3.879	384	4.830	384	4.068	416	3.677	432	3.801	592
H.FP	0.859	64	0.836	80	0.726 80	0.839	56	0.746	64	0.727	72	0.805	64	0.782	80	0.681	80	0.719	112	0.382
H.SYNC	1.718	128	1.337	128	1.234	136	1.678	112	1.399	120	1.212	120	1.610	128	1.252	128	1.157	136	1.181	184
H.BP	2.577	192	2.172	208	1.959	216	2.517	168	2.146	184	1.939	192	2.415	192	2.034	208	1.838	216	1.900	296
H.ACTIV	17.181	1280	13.368	1280	11.610	1280	17.258	1152	13.434	1152	11.636	1152	16.101	1280	12.518	1280	10.894	1280	11.095	1728
-VERTICAL-																				
V.FREQ(HZ)	59.855	Hz	74.777	Hz	84.846Hz	59.972	Hz	74.721	Hz	84.918	Hz	59.870	Hz	74.893	Hz	84.837	Hz	59.941	Hz	59.950
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V.TOTAL	16.707	748	13.373	755	11.786	759	16.675	748	13.383	755	11.776	759	16.703	798	13.352	805	11.787	809	16.683	1120
V.BLK	0.625	28	0.620	35	0.606	39	0.624	28	0.620	35	0.605	39	0.628	30	0.614	37	0.597	41	0.596	40
V.FP	0.067	3	0.053	3	0.047	3	0.067	3	0.053	3	0.047	3	0.063	3	0.050	3	0.044	3	0.045	3
V.SYNC	0.112	5	0.089	5	0.078	5	0.134	6	0.106	6	0.093	6	0.147	7	0.116	7	0.102	7	0.089	6
V.BP	0.447	20	0.478	27	0.481	31	0.424	19	0.461	26	0.465	30	0.419	20	0.448	27	0.452	31	0.462	31
V.ACTIV	16.082	720	12.753	720	11.180	720	16.050	720	12.763	720	11.171	720	16.750	768	12.739	768	11.190	768	16.087	1080
-SYNC-																				
INT(G)	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
EXT(H/V)/POLARITY	NO	N/P	NO	N/P	NO	N/P	NO	N/P	NO	N/P	NO	N/P	NO	N/P	NO	N/P	NO	N/P	NO	N/P
EXT(CS)/POLARITY	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
Serration	NO		NO		NO		NO		NO		NO		NO		NO		NO		NO	
SYNC LEVEL	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V	TTL	V
-VIDEO-																				
VIDEO LEVEL	0.700	Vp-p	0.700	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p	0.7	Vp-p
SET UP	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V
-OTHERS-																				
INT/NON INT	NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT		NON INT	
SIZE(23)	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm	495X306	mm
#OF GRIDS	16 { 9		16 { 9		16 { 9		16 { 10		16 { 10		16 { 10		15 { 9		15 { 9		15 { 9		16 { 10	
DOTS&LINES/GRID	80 { 80		80 { 80		80 { 80		72 { 72		72 { 72		72 { 72		85 { 85		85 { 85		85 { 85		108 { 108	
EDID DATA																				
COMMENTS																				
-SONY SG SETTING																				
-OTHERS																				

MODEL NAME /SV#(23")				
PRESET MODE(23")	MODE51		MODE52	
MODE FOR CUSTOMER	CTV		CTV	
RESOLUTION	1728x1080		1680x1050	
CLOCK	125.750	MHZ	146.250	MHZ
-HORIZONTAL-				
H-FREQ	66.605	kHz	65.290	kHz
	usec	dots	usec	dots
H. TOTAL	1888	15.316	2240	
H. BLK	1.272	160	3.829	560
H.FP	48	0.711	104	
H.SYNC	0.254	32	1.203	176
H.BP	0.636	80	1.915	280
H.ACTIV	13.742	1728	11.487	1680
-VERTICAL-				
V.FREQ(HZ)	Hz	59.954	Hz	
	msec	lines	msec	lines
V.TOTAL	16.680	1111	16.679	1089
V.BLK	0.465	31	0.597	39
V.FP	0.045	3	0.046	3
V.SYNC	0.090	6	0.092	6
V.BP	0.330	22	0.459	30
V.ACTIV	16.215	1080	16.082	1050
-SYNC-				
INT(G)	NO		NO	
EXT(H/V)/POLARITY	NO	P/N	NO	N/P
EXT(CS)/POLARITY	NO		NO	
Serration	NO		NO	
SYNC LEVEL	TTL	V	TTL	V
-VIDEO-				
VIDEO LEVEL	0.7	Vp-p	0.7	Vp-p
SET UP	0	V	0	V
-OTHERS-				
INT/NON INT	NON INT		NON INT	
SIZE(23)	495X306	mm	495X306	mm
#OF GRIDS	16 { 10		16 { 10	
DOTS&LINES/GRID	108 { 108		105 { 105	
EDID DATA				
COMMENTS				
-SONY SG SETTING				
-OTHERS				

OPERATING INSTRUCTIONS

Front Control Panel



This display employs a touch sensor key system. You can operate the display by touching the letters or symbols on the front panel. Touch sensor keys work only when they are lit. touch sensor keys light up when you turn the monitor on. but they turn off if you do not perform any operations for a while. To light them up again, touch an area of the touch sensor keys.

1. Sony logo
Sony logo illuminates.

2. ⏻ Power
This key turns the monitor on when the key lights up in red. To turn the monitor off, touch this key again.
If the key does not light up, press the MAIN POWER switch(9).

3. MENU
This key turns the menu screen on and off.

4. ↑/↓
These keys are used to select the menu items and make adjustments.

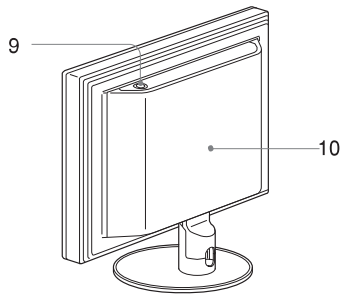
5. OK
This key activates the selected menu item and adjustments made using ↑/↓(4).
When the menu screen is not displayed. with this key you can make automatic adjustment of the picture quality for the current input signal(one touch sensing function).

6. INPUT
This key switches the video input signal between INPUT1, INPUT2 and INPUT3 when multiple computers are connectde to the monitor

7. ECO
This key is used to reduce the power consumption.

8. Light sensor
This sensor measures the brightness of the surrounding area.
Be sure not to cover the sensor with papers, etc.

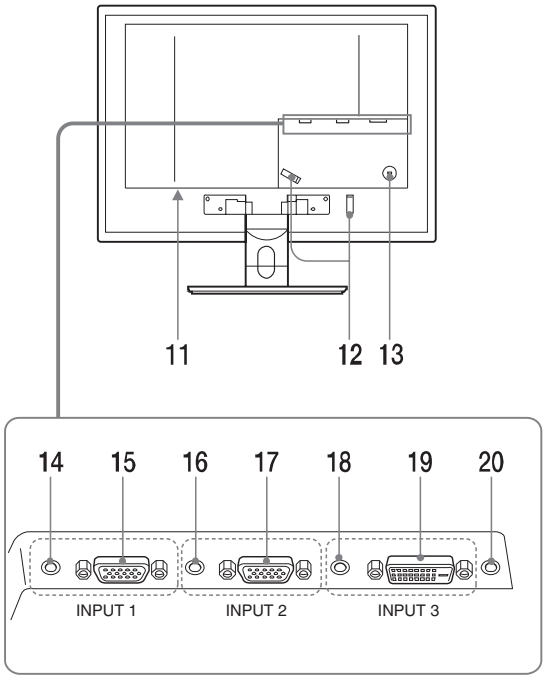
Rear of the display stand



9. MAIN POWER switch
This switch turns the monitor's main power on and off.

10. Back cover
Slide up this cover when you connect cables or cords.

Rear of the LCD display



11. AC IN connector
This connector connects the power cord.

12. Cable holder
This parts secures cables and cords to the monitor.

13. Security lock hole
The security lock hole should be used with the Kensington Micro Saver Security System.
Micro Saver Security System is a trademark of Kensington.

14. Audio input jack for INPUT1
This jack inputs audio signals when connected to the audio output jack of a computer or other audio equipment connected to INPUT1

15. HD15 input connector(analog RGB) for INPUT1
This connector inputs analog RGB video signals(0.700 Vp-p, positive) and sync signals.

16. Audio inputjack for INPUT2
This jack inputs audio signals when connected to the audio output jack of a computer or other audio equipment connected to INPUT2.

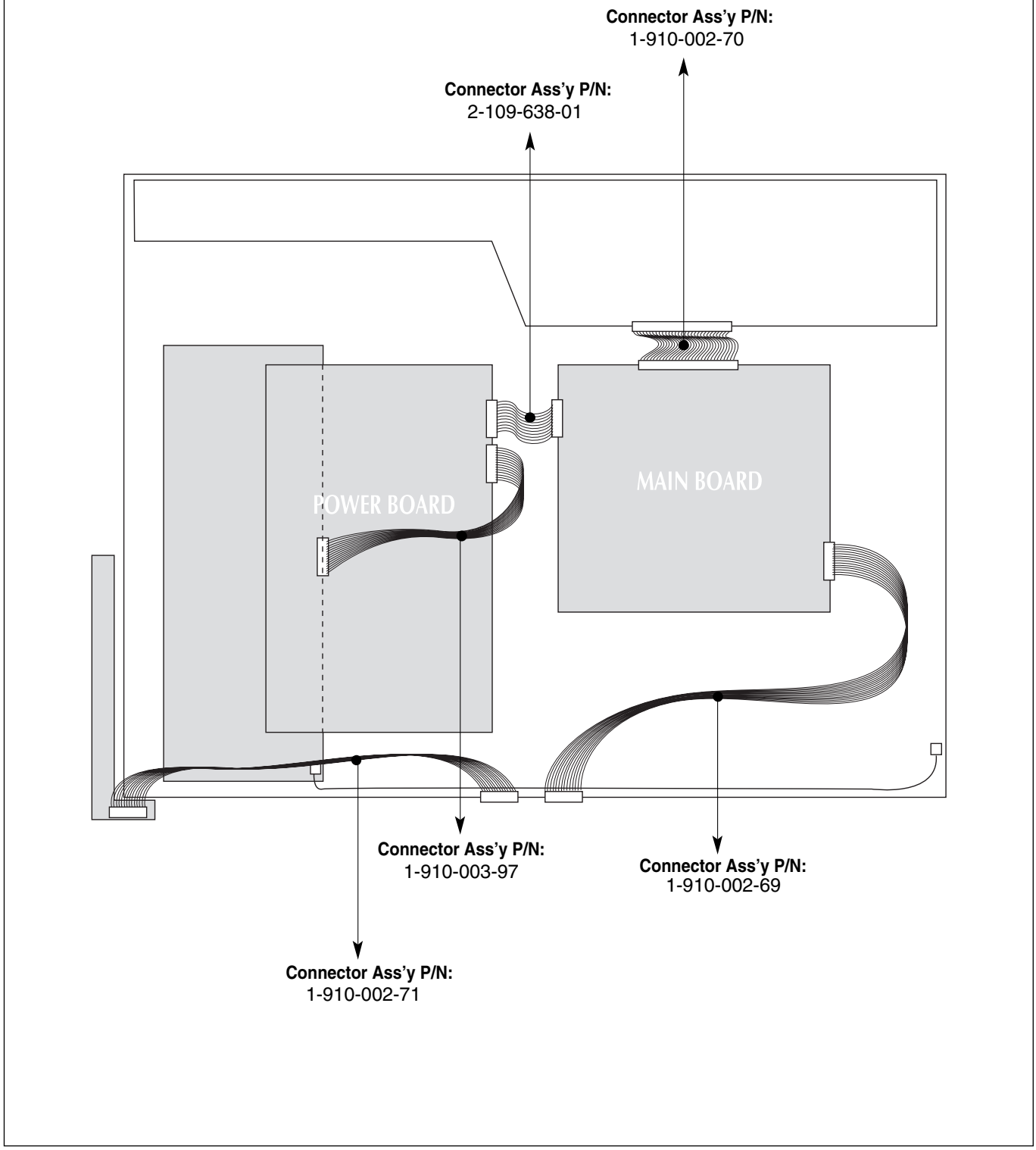
17. HD15 input connector(analog RGB) for INPUT2
This connector inputs analog RGB video signals(0.700 Vp-p, positive) and sync signals.

18. Audio input jack for INPUT3
This jack inputs audio signals when connected to the audio output jack of a computer or other audio equipment connected to INPUT3.

19. DVI-D input connector(digital RGB) for INPUT3
This connector inputs digital RGB video signals that comply with DVI Rev.1.0.

20. Audio output jack
This jack outputs audio signals to speakers or other audio equipment.

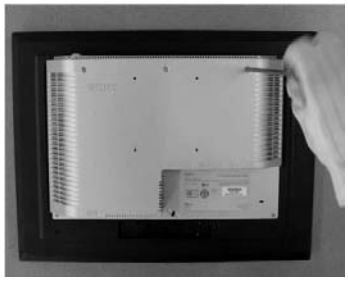
WIRING DIAGRAM



DISASSEMBLY

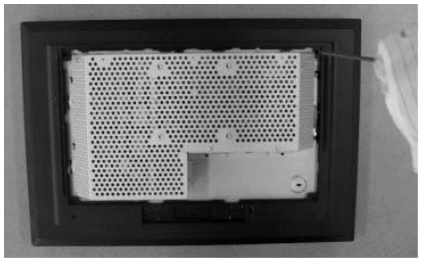
REAR CABINET REMOVEL.

1) Take off screw at back cabinet(5EA)



2) Pull the back cabinet like as picture.

3) Take off screw at Middle cabinet(6EA)



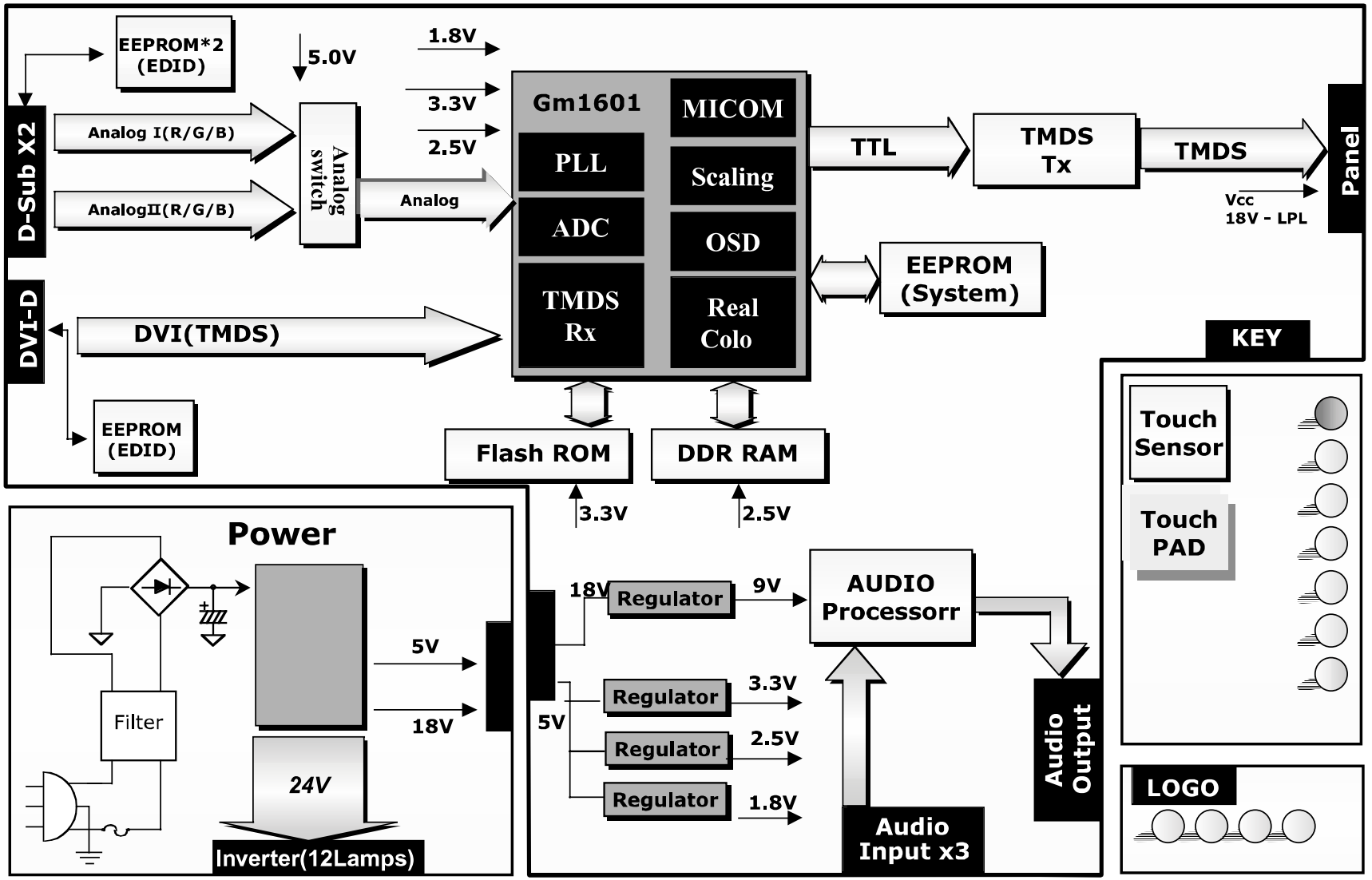
4) The unit turn upside down and lift central inside of front bezel with fingertip like as picture.

5) Progress extracts latch of bezel left top area like as picture.

6) Progress extracts latch of bezel left bottom area like as picture.

7) The unit turn upside down and pull right middle area like as picture.

BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

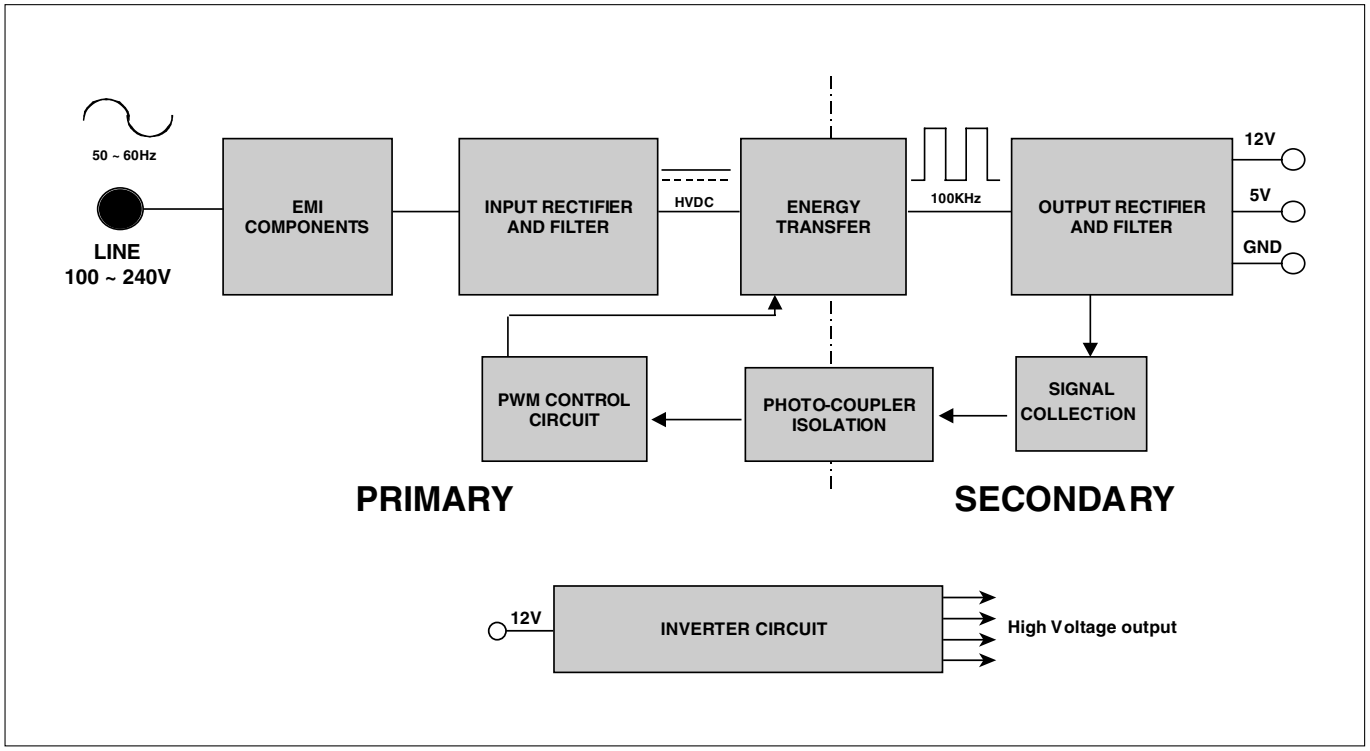
1. Video Controller Part & Display Data Transmitter Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.
The pixel clock for each mode is generated by the PLL.
The range of the pixel clock is from 25MHz to 165MHz.
This part consists of the Scaler, Flash-ROM IC which stores program data, Reset IC.
The Scaler gets the video signal converted analog to digital, interpolates input to 1900 x 1200 resolution signal and outputs 8-bit R, G, B signal to transmitter.
Especially pre-amp / ADC / Video controller/ Transmitter are merged to one chip 'Gm1601' by Genesis.
This part transmit digital signal from the Scaler to the receiver of module.

2. Power Part

This part consists of the two 3.3V and one 2.5V and one 1.8Vregulators to convert power which is provided 18V in Power Board V is provided for LCD Panel.
24V in Power Board V is provided for Inverter Part.
Also, 5V is converted 3.3V and 2.5V and 1.8V by regulator. Converted power is provided for IC in the main board.

LIPS Board Block Diagram



Operation description_LIPS

1. EMI components.
This part contains of EMI components to comply with global marketing EMI standards like FCC,VCCI CISPR, the circuit included a line-filter, across line capacitor and of course the primary protection fuse.

2. Input rectifier and filter.
This part function is for transfer the input AC voltage to a DC voltage through a bridge rectifier and a bulk capacitor.

3. Energy Transfer.
This part function is for transfer the primary energy to secondary through a power transformer.

4. Output rectifier and filter.
This part function is to make a pulse width modulation control and to provide the driver signal to power switch,to adjust the duty cycle during different AC input and output loading condition to achieve the dc output stabilized, and also
the over power protection is also monitor by this part.

5. Photo-Coupler isolation.
This part function is to feed back the dc output changing status through a photo transistor to primary controller to achieve the stabilized dc output voltage.

6. Signal collection.
This part function is to collect the any change from the dc output and feed back to the primary through photo transistor

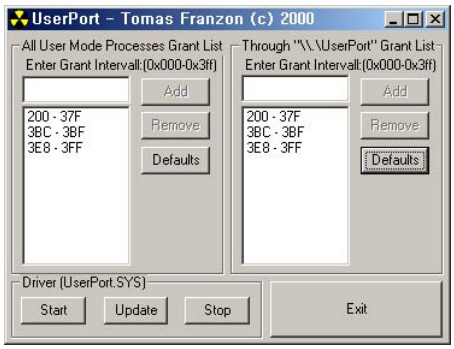
7. Inverter
The inverter converts from DC24V to AC 700V and operate back-light lamp of module.

ADJUSTMENT

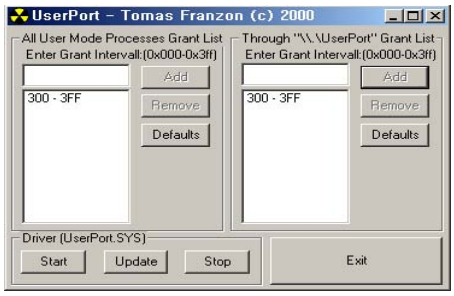
Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP
Port Setup: Windows 98 => Don't need setup
Windows 2000, XP => Need to Port Setup.
This program is available to LCD Monitor only.

1. Port Setup
   a) Copy "UserPort.sys" file to "c:\WINNT\system32\drivers" folder
   b) Run Userport.exe

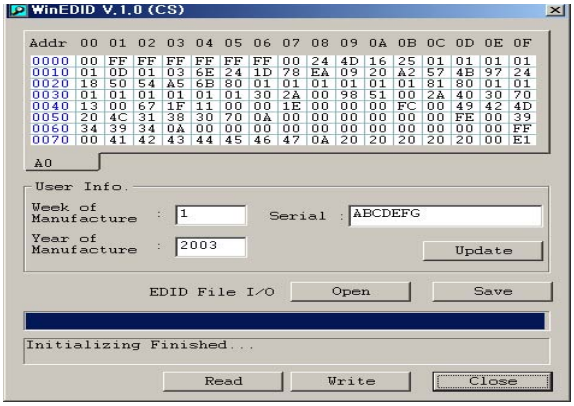


   c) Remove all default number
   d) Add 300-3FF

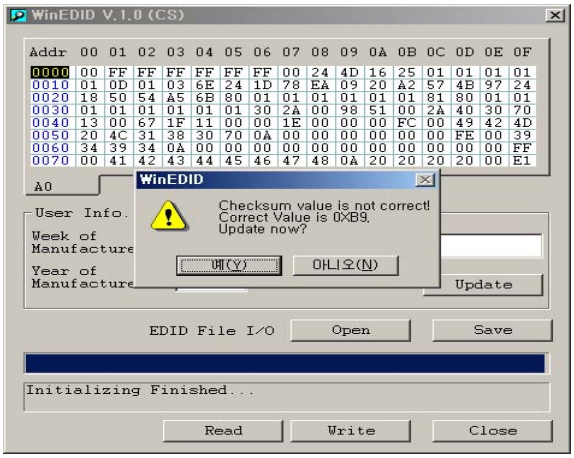


   e) Click Start button.
   f) Click Exit button.

2. EDID Read & Write
   1) Run WinEDID.exe



   2) Edit Week of Manufacture, Year of Manufacture, Serial Number
      a) Input User Info Data
      b) Click "Update" button
      c) Click "Write" button



EDID Data

No	Item	Content	Hexadecimal
1	Manufacturer ID	SNY	4DD9
2	Product ID(Analog)	976	3D0
	Product ID(Digital)	720	2D0
3	Year	2004	0E
4	Version	1	01
5	Revision	3	03

EDID Ver.1.0 FOR ANALOG(SONY DATA)

No.	Data		No.	Data		No.	Data		No.	Data	
0	00h	〈Header〉	32	10h	(Blue) Y=0.065	64	36h		96	55h	fV max. 85 [Hz]
1	FFh		33	50h	(White) X=0.313	65	00h		97	1Ch	fH min. 28 [kHz]
2	FFh		34	54h	(White) Y=0.329	66	EFh		98	5Ch	fH max. 92 [kHz]
3	FFh		35	ADh	<Established Timings>	67	35h		99	10h	Max. p_clk 160 [MHz]
4	FFh		36	CFh		68	11h		100	00h	
5	FFh		37	80h		69	00h		101	0Ah	
6	FFh		38	A9h	<Standard Timings>	70	00h		102	20h	
7	00h		39	40h	#1£ 1600*1200/60Hz	71	1Ah		103	20h	
8	4Dh	〈 Manufacturer name 〉	40	81h		72	48h	D Timing #2	104	20h	
9	D9h	SNY	41	99h	#2£ 1280*1024/85Hz	73	3Fh	<Signal Timing>	105	20h	
10	D0h	〈 Product code 〉	42	81h		74	40h	(VESA1600x1200@60)	106	20h	
11	03h	(D003) –〉 03D0	43	59h	#3£ 1280*960/85Hz	75	30h		107	20h	
12	*3	(Serial)	44	01h		76	62h		108	00h	D Timing #4
13	*3		45	01h	#4£ None	77	B0h		109	00h	<Model Name 1>
14	*3		46	01h		78	32h		110	00h	SDM-P234
15	*3		47	01h	#5£ None	79	40h		111	FCh	
16	*1	〈Week〉	48	01h		80	40h		112	00h	
17	*2	〈Year〉	49	01h	#6£ None	81	C0h		113	53h	S
18	01h	〈EDID S_Version〉	50	01h		82	13h		114	44h	D
19	03h	〈EDID Revision〉	51	01h	#7£ None	83	00h		115	4Dh	M
20	0Eh	〈Video Input siganl〉	52	01h		84	EFh		116	2Dh	-
21	32h	〈Max.H. ImageSize〉495.4mm	53	01h	#8£ None	85	35h		117	50h	P
22	1Fh	〈Max.V. Image Size〉309.6mm	54	28h	D Timing #1	86	11h		118	32h	2
23	78h	〈Gamma〉	55	3Ch	<Signal Timing>	87	00h		119	33h	3
24	EAh	〈DPMS etc.〉	56	80h	(VESA1920x1200@60)	88	00h		120	34h	4
25	CFh	Module Color data	57	A0h		89	1Eh		121	0Ah	(EOL)
26	B5h		58	70h		90	00h	D Timing #3	122	20h	
27	A3h	(RED) X=0.640	59	B0h		91	00h	<Range>	123	20h	
28	55h	(RED) Y=0.332	60	23h		92	00h		124	20h	
29	49h	(Green) X=0.288	61	40h		93	FDh		125	20h	
30	99h	(Green) Y=0.601	62	30h		94	00h		126	00h	
31	25h	(Blue) X=0.146	63	20h		95	39h	fV min. 57 [Hz]	127	*4	<Check Sum>

EDID Ver.1.0 FOR DIGITAL(SONY DATA)

No.	Data		No.	Data		No.	Data		No.	Data	
0	00h	〈Header〉	32	10h	(Blue) Y=0.065	64	36h		96	3Fh	fV max. 63 [Hz]
1	FFh		33	50h	(White) X=0.313	65	00h		97	1Ch	fH min. 28 [kHz]
2	FFh		34	54h	(White) Y=0.329	66	EFh		98	4Bh	fH max. 75 [kHz]
3	FFh		35	A1h	<Established Timings>	67	35h		99	10h	Max. p_clk 160 [MHz]
4	FFh		36	08h		68	11h		100	00h	
5	FFh		37	00h		69	00h		101	0Ah	
6	FFh		38	A9h	<Standard Timings>	70	00h		102	20h	
7	00h		39	40h	#1£ 1600*1200/60Hz	71	1Ah		103	20h	
8	4Dh	〈 Manufacturer name 〉	40	81h		72	48h	D Timing #2	104	20h	
9	D9h	SNY	41	80h	#2£ 1280*1024/60Hz	73	3Fh	<Signal Timing>	105	20h	
10	D0h	〈 Product code 〉	42	81h		74	40h	(VESA1600x1200@60)	106	20h	
11	02h	(D002) –> 02D0	43	40h	#3£ 1280*960/60Hz	75	30h		107	20h	
12	*3	(Serial)	44	01h		76	62h		108	00h	D Timing #4
13	*3		45	01h	#4£ None	77	B0h		109	00h	<Model Name 1>
14	*3		46	01h		78	32h		110	00h	SDM-P234
15	*3		47	01h	#5£ None	79	40h		111	FCh	
16	*1	〈Week〉	48	01h		80	40h		112	00h	
17	*2	〈Year〉	49	01h	#6£ None	81	C0h		113	53h	S
18	01h	〈EDID S_Version〉	50	01h		82	13h		114	44h	D
19	03h	〈EDID Revision〉	51	01h	#7£ None	83	00h		115	4Dh	M
20	80h	〈Video Input siganl〉	52	01h		84	EFh		116	2Dh	-
21	32h	〈Max.H. Image Size〉495.4mm	53	01h	#8£ None	85	35h		117	50h	P
22	1Fh	〈Max.V. Image Size〉309.6mm	54	28h	D Timing #1	86	11h		118	32h	2
23	78h	〈Gamma〉	55	3Ch	<Signal Timing>	87	00h		119	33h	3
24	EAh	〈DPMS etc.〉	56	80h	(VESA1920x1200@60)	88	00h		120	34h	4
25	CFh	Module Color data	57	A0h		89	1Eh		121	0Ah	(EOL)
26	B5h		58	70h		90	00h	D Timing #3	122	20h	
27	A3h	(RED) X=0.640	59	B0h		91	00h	<Range>	123	20h	
28	55h	(RED) Y=0.332	60	23h		92	00h		124	20h	
29	49h	(Green) X=0.288	61	40h		93	FDh		125	20h	
30	99h	(Green) Y=0.601	62	30h		94	00h		126	00h	
31	25h	(Blue) X=0.146	63	20h		95	39h	fV min. 57 [Hz]	127	*4	<Check Sum>

SERVICE OSD

To enter service OSD menu,
1) Turn off the power switch button.

2) Press UP,DOWN, and then POWER key.

3) Shows the service OSD menu. That menu is located in down side of main menu.

4) The service OSD menu contains additional menus as described below.

a) COLOR TEMP: Adjust R/G/B color values of contrast and brightness in 9300K, 6500K, 5000K and sRGB.
sRGB BRT: Adjust Backlight of sRGB.

b) INITIAL EEPROM: Initialize the EEPROM values(24C08).

c) CLEAR ETI: Initialize the used time of monitor.

d) AGING: Select aging mode.(On/Off)

e) WHITE BALANCE
AUTO : Allows you to set the R/G/B offset and gain value automatically.
MANUAL: Allows you to set the R/G/B offset and gain value manually.

f) DEFAULT TIMING: Select the resolution timing of the signal.
1ST Menu is 1152x870.
Sub menus are 1152x864(VESA standard timing) and 1152x870(MAC computer timing).
2ND Menu is 1920x1200.
Sub menus are 1920x1200(1080i Video timing) and 1728x1080.

g) LIGHT SENSOR
When ECO Auto mode, the BACKLIGHT is changed as Light sensor Input.
X : Light Sensor Input, Y : Backlight Value Setting

h) COPY EDID
EDID DATA at DDC2B EEPROM is saved System Memory.
Process : No cable condition at Input1 & Input2, Signal Input at Input3(DVI-D).
--> Enter SVC mode --> Copy EDID --> Mode Information OSD appears

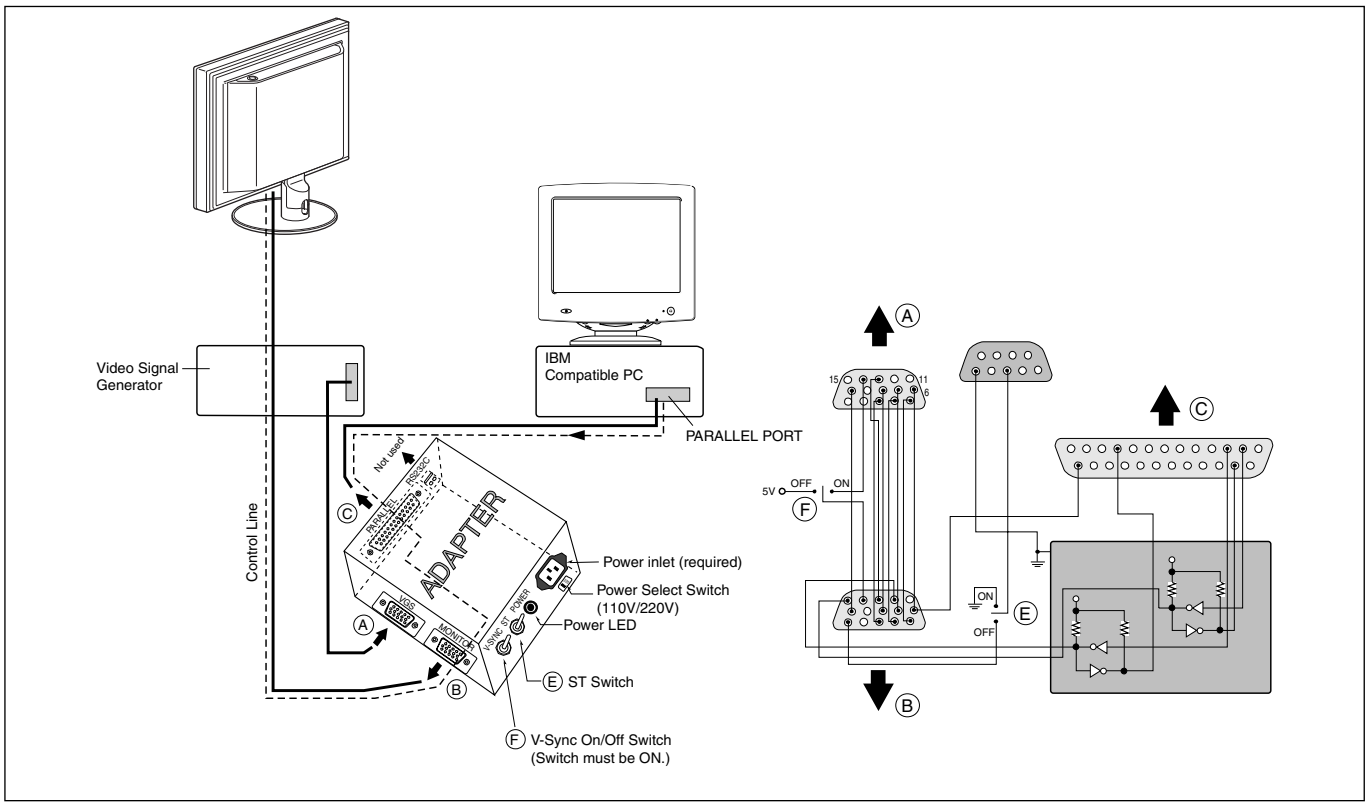
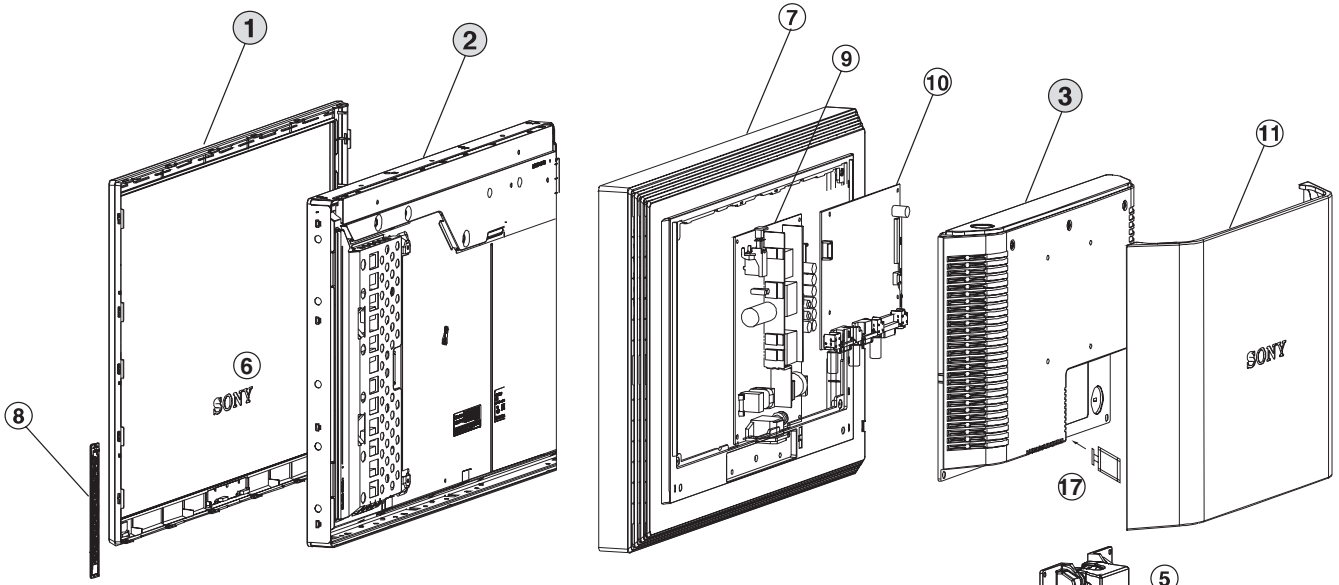
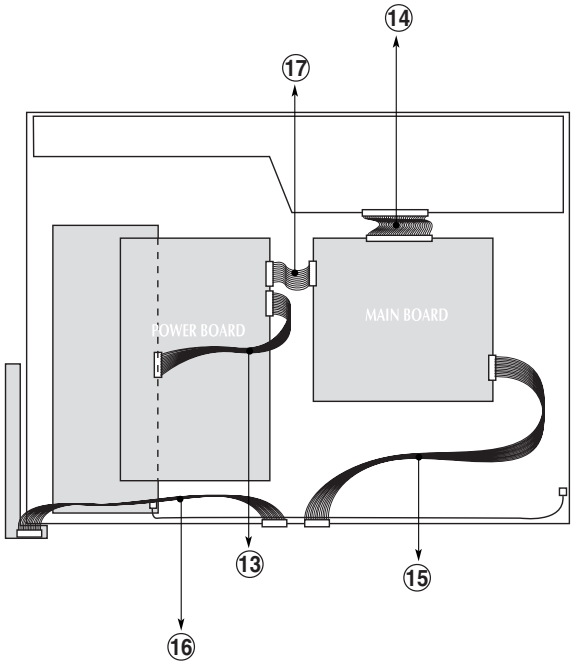
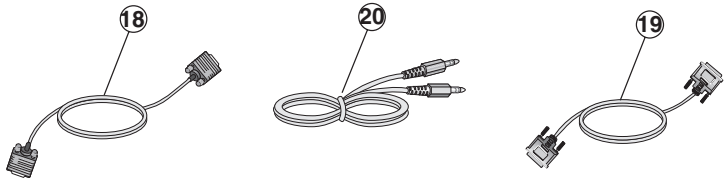


Figure 1. Cable Connection

EXPLODED VIEW







EXPLODED VIEW PARTS LIST

Ref. No	SONY Part No.	SONY name	LG PART NO.
1	X-2022-485-1	BEZEL ASSY	3091TKL114A
2	1-478-909-11	LCD PANEL	6304FLP157A
3	X-2022-484-1	BACK CABINET ASSY	3809TKL082A
4	X-2022-487-1	STAND ASSY	3043TKK184A
5	2-109-645-01	COVER STAND REAR	3550TKK586A
6	A-1067-563-A	SONY LOGO ASSY (H2 MOUNT, SONY LOGO, SHIELD SONY LOGO, REFLECTION SHEET)	6871TST620A
7	X-2022-486-1	MIDDLE CABINET ASSY	3551TKK535A
8	A-1067-562-A	SENSOR KEY ASSY (H1 MOUNT, CONTROL KNOB, CUSHION,)	6871TST690A
9	A-1067-881-A	G MOUNT	6871TPT278A
10	A-1067-882-A	A MOUNT	3313TL2024A
11	2-109-609-01	COVER DOOR	3550TKK583A
12	1-910-002-72	CONNECTOR ASSY, 14P G-Panel	6631T20023N
13	1-910-003-97	CONNECTOR ASSY, Panel Link	6631T11020H
14	1-910-002-70	CONNECTOR ASSY, 14P H2-A	6631T10003K
15	1-910-002-69	CONNECTOR ASSY, 14P H1, H2	6631T10003J
16	1-910-002-71	CONNECTOR ASSY, 11P A-G	6631T20025C
17	2-109-638-01	CABLE HOLDER H=25.6	4930TKK065A
ACCESSORIES & PACKING MATERIALS			
18	1-827-757-11	D-SUB CABLE	6850TD9004G
19	1-829-145-11	DVI CABLE	6866TDV004S
20	1-827-759-11	AUDIO CABLE	6852TAZ006P
21	1-828-060-11	POWER-SUPPLY CORD SET (U/C)	6410TUW005A
	1-828-019-11	POWER-SUPPLY CORD SET (AEP)	6410TEW007A
22	4-102-356-05	CD-ROM	3170TZ1294A
23	2-048-565-01	QUICK SETUP GUIDE (U/C)	3828TUO219A
	2-048-565-11	QUICK SETUP GUIDE (AEP)	3828TUO219B
24	2-109-653-01	PROTECTION BAG	3880TKZ020G
25	2-109-654-01	CUSHION(Upper & Bottom)	3920TKP018A/B
26	2-103-337-01	INDIVIDUAL CARTON	3890TSE705A